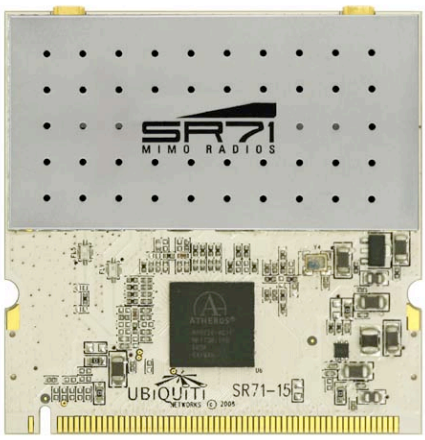
SR71-15

Hi Performance 5GHz 802.11n Radio Module



CARD INFORMATION	
Wireless Chipset	Atheros AR9220 with DFS SUPPORT
Radio Operation	IEEE 802.11 a/n
Interface	32-bit mini-PCI Type IIIA
Operation Voltage	3.3VDC
Antenna Ports	(2) MMCX for 2x2 MIMO Operation
Temperature Range	-40C to +85C (extended temp version up to +95C)
Security	802.11i with AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP
Data Rates	Legacy 802.11a/b/g (1-54Mbps), 802.11n (up to 300Mbps)
RoHS Compliance	YES

REGULATORY INFORMATION	
Wireless Modular Approvals	FCC , Industry Canada, CE

OPERATING FREQUENCY 5475-5825 MHz

TX POWER SPECIFICATIONS (combined)

	DataRate	Avg. TX	Tolerance
11a	1-24Mbps	25 dBm	+/-2dB
	36Mbps	24 dBm	+/-2dB
	48Mbps	22 dBm	+/-2dB
	54Mbps	21 dBm	+/-2dB
5GHz 11n HT20	MCS0	25 dBm	+/-2dB
	MCS1	25 dBm	+/-2dB
	MCS2	25 dBm	+/-2dB
	MCS3	24 dBm	+/-2dB
	MCS4	23 dBm	+/-2dB
	MCS5	22 dBm	+/-2dB
	MCS6	21 dBm	+/-2dB
	MCS7	19 dBm	+/-2dB
	MCS8	25 dBm	+/-2dB
	MCS9	25 dBm	+/-2dB
	MCS10	25 dBm	+/-2dB
	MCS11	24 dBm	+/-2dB
	MCS12	23 dBm	+/-2dB
	MCS13	22 dBm	+/-2dB
	MCS14	21 dBm	+/-2dB
	MCS15	19 dBm	+/-2dB

RX SPECIFICATIONS

	DataRate	Sensitivity	Tolerance
11a	1-24Mbps	-97 dBm	+/-3dB
	36Mbps	-90 dBm	+/-3dB
	48Mbps	-86 dBm	+/-3dB
	54Mbps	-84 dBm	+/-3dB
5GHz 11n HT20	MCS0	-97 dBm	+/-3dB
	MCS1	-96 dBm	+/-3dB
	MCS2	-93 dBm	+/-3dB
	MCS3	-91 dBm	+/-3dB
	MCS4	-87 dBm	+/-3dB
	MCS5	-84 dBm	+/-3dB
	MCS6	-78 dBm	+/-3dB
	MCS7	-75 dBm	+/-3dB
	MCS8	-98 dBm	+/-3dB
	MCS9	-97 dBm	+/-3dB
	MCS10	-94 dBm	+/-3dB
	MCS11	-92 dBm	+/-3dB
	MCS12	-88 dBm	+/-3dB
	MCS13	-85 dBm	+/-3dB
	MCS14	-79 dBm	+/-3dB
	MCS15	-76 dBm	+/-3dB

AVG. CURRENT CONSUMPTION INFORMATION

MODE	*6Mbps*	*MCS0, HT20*	*MCS15, HT20*	*MCS15, HT40*
100% TX (using TX99 test tool)	1.30A	1.30A	0.70A	0.70A
Real-World (using iPerf long file transfer)	0.75A	0.75A	0.50A	0.50A
Idle	0.25A	0.25A	0.25A	0.25A

RANGE PERFORMANCE

Indoor (Antenna Dependent):	Up to 200meters
Outdoor (Antenna Dependent):	Over 50km

For help with special driver support, please e-mail support@ubnt.com

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